



Heat Transfer Division

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- The Heat Transfer Division has over 4000 primary members and 4000 secondary members. Information about the division can be found at <http://divisions.asme.org/htd/>

History and Objectives

- Beginning in the early part of the twentieth century the number of ASME members having a technical interest in the field of heat transfer began to steadily increase. This led to the formation of a Heat Transfer Professional Group within the Process Industries Division of ASME in 1938. This Group became the **Heat Transfer Division in 1941**.
- The **Heat Transfer Division's** objective is to enhance the theory and application of heat transfer in equipment and thermodynamic processes in all fields of mechanical engineering and related technologies.

Technical Committees

- One of the strengths of the HTD is the active involvement of members in our technical committees. This work has resulted in the HTD being the most active and well represented division at IMECEs. The present technical committees are:
 - K-6 Heat Transfer in Energy Systems
 - K-7 Thermophysical Properties
 - K-8 Theory and Fundamental Research
 - K-10 Heat Transfer Equipment
 - K-11 Fire and Combustion
 - K-12 Aerospace Heat Transfer
 - K-13 Heat Transfer in Multiphase Systems
 - K-14 Gas Turbine Heat Transfer
 - K-15 Heat Transfer in Manufacturing and Materials Processing
 - K-16 Heat Transfer in Electronic Equipment
 - K-17 Heat and Mass Transfer in Biotechnology
 - K-18 Low Temperature Heat Transfer
 - K-19 Environmental Heat Transfer
 - K-20 Computational Heat Transfer
 - K-21 Education
 - K-22 Committee on Visualization of Heat Transfer

Conferences

- The HTD has two primary conferences at which technical papers are presented. Each summer the Summer Heat Transfer Conference is held, often with other divisions or groups, with 300+ presentations. In the fall, HTD is active in the IMECE with 250-300 papers presented. The HTD also co-sponsors many national and international conferences.

Publications

- Papers written by HTD members appear in many different publications, with the flagship publication being the *Journal of Heat Transfer*. A new journal, the *Journal of Thermal Science and Engineering Applications* focuses on applied thermal sciences and engineering. Heat transfer also has a strong presence in the *Journals of Electronics Packaging, Solar Engineering, Turbomachinery*, and other publications.

Awards

To reward excellence and to encourage professional growth and recognition, the HTD sponsors a number of prestigious awards. Details can be found on the HTD website.

- **Heat Transfer Division awards:**
 - Best Paper Award
 - Best Poster Presentation Award
 - Classic Paper Award
 - Distinguished Service Award
 - Undergraduate Research & Design Award
- **Society-level awards**
 - Heat Transfer Memorial Award (Art, Science, General)
 - Bergles-Rohsenow Young Investigator Award
- **Joint award with AIChE:**
 - Max Jakob Memorial Award